

product type designation



### RF185C communication module

RFID communication module RF185C for PROFINET, Ethernet, EtherNet/IP, OPC/UA, 1 reader can be connected

suitability for operation

IE / PN network together with RF200/300/1000 MV300/400/500

### transfer rate

|   |                    |
|---|--------------------|
| transfer rate / for Industrial Ethernet                             | 100 ... 100 Mbit/s |
| transfer rate / at the point-to-point connection / serial / maximum | 921.6 kbit/s       |

### interfaces

|   |              |
|---|--------------|
| design of the interface / for point-to-point connection     | RS422/RS232  |
| number of readers / connectable                             | 1            |
| type of electrical connection                               |              |
| • of Industrial Ethernet interface                          | M12, d-coded |
| • for supply voltage  | M12, L-coded |
| design of the interface / to the reader / for communication | M12, 8-pin   |
| number of digital inputs                                    | 0            |
| number of digital outputs                                   | 0            |

### mechanical data

|   |  |
|---|--|
| material  | Thermoplastic (Valox 467, fiberglass reinforced) |
| color   | Al-grey 2001                                     |
| tightening torque / of the screw for securing the equipment / maximum | 3 N·m  |

### supply voltage, current consumption, power loss

|  |                 |
|--|-----------------|
| supply voltage / at DC   |                 |
| • rated value  | 24 V            |
| •  | 20.4 ... 28.8 V |
| consumed current   |                 |
| • at DC / at 24 V / without connected devices / typical                      | 0.13 A          |
| • from supply voltage 1L+ / maximum  | 4 A             |
| continuous current / for loop-through to further bus nodes / at DC / maximum | 12 A            |

### ambient conditions

|                          |   |
|--------------------------|---|
| ambient temperature      |   |
| • during operation       | -25 ... +55 °C                                |
| • during storage         | -40 ... +70 °C                                |
| • during transport       | -40 ... +70 °C                                |
| protection class IP      | IP67  |
| shock resistance         | according to IEC 60068-2-27 and IEC 60068-2-6 |
| shock acceleration       | 300 m/s <sup>2</sup>                          |
| vibrational acceleration | 40 m/s <sup>2</sup>                           |

### design, dimensions and weights

|        |       |
|--------|-------|
| width  | 60 mm |
| height | 45 mm |

|   |  |
|---|--|
| depth   | 165 mm   |
| net weight  | 0.26 kg  |
| fastening method  | 2 M4 screws  |
| wire length / for RS 422 interface / maximum                                    | 1000 m   |
| <b>product features, product functions, product components / general</b>        |  |
| display version   | 2 LEDs per reader connection, 3 LEDs for device status, 2 LEDs for Ethernet ports  |
| protocol / is supported / Media Redundancy Protocol (MRP)                       | Yes  |
| product function / of the PROFINET IO device / is supported / H-Sync forwarding | No   |
| product function / addressable transponder file handler                         | No   |
| protocol / is supported   |  |
| • LLDP  | Yes  |
| • PROFINET IO protocol  | Yes  |
| • TCP/IP  | Yes  |
| • SNMP v1   | Yes  |
| • SNMP v2   | No   |
| • SNMP v3   | Yes  |
| • DCP   | Yes  |
| • EtherNet/IP protocol  | Yes  |
| • OPC UA  | Yes  |
| product feature / silicon-free  | Yes  |
| <b>product functions / management, configuration, engineering</b>               |  |
| type of parameterization  | HSP, GSDML, EDS, TO, WBM   |
| type of programming   | ID profile, library with functions, FB 45, OPC UA, XML   |
| type of computer-switched communication   | acyclic communication, communication via process image, TCP/IP   |
| <b>standards, specifications, approvals</b>                                     |  |
| certificate of suitability  | CE, FCC, cULus, PNO: Conformance Class B, Netload Class (SL1) III, OPC UA: Embedded UA Server Profile  |
| certificate of suitability  |  |
| • IECEx   | No   |
| MTBF  | 70 a   |
| reference code  |  |
| • according to IEC 81346-2:2019   | KEC  |
| product function / is supported / identification link                           | Yes; acc. to IEC 61406-1:2022  |
| <b>standards, specifications, approvals / Environmental Product Declaration</b> |  |
| Environmental Product Declaration   | Yes  |
| global warming potential [CO2 eq]   |  |
| • total   | 101.43 kg  |
| • during manufacturing  | 16 kg  |
| • during operation  | 85.3 kg  |
| • after end of life   | 0.13 kg  |
| <b>further information / internet links</b>                                     |  |
| internet link   |  |
| • to website: Selection guide for cables and connectors                         | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>  |
| • to web page: selection aid TIA Selection Tool                                 | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>  |
| • to web page: identification and localization systems                          | <a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a>  |
| • to web page: SiePortal  | <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>  |
| • to website: Image database  | <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>  |
| • to website: CAX-Download-Manager  | <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>  |
| • to website: Industry Online Support   | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>  |
| <b>security information</b>   |  |
| security information  | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions |

undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

## Approvals / Certificates

### General Product Approval

[Declaration of Conformity](#)



[China RoHS](#)

[Declaration of Conformity](#)

General Product Approval

Radio Equipment Type Approval Certificate

Environment

Industrial Communication



[KC](#)



[PROFINET](#)

last modified:

5/24/2025